

**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of the Claims:**

1. - 4. (Canceled)

5. Canceled

6. (Currently Amended) The method of claim ~~[[1]]13~~, wherein the electric motor comprises an EC motor.

7. (Currently Amended) The method of claim ~~[[1]]13~~, further comprising capturing a position of the cam with a sensor in order to ~~[[vary]]~~ accelerate the rotating speed of the cam approximately midway through ~~[[during]]~~ the compression stroke.

8. -10. (Canceled)

11. (Previously Presented) The method of claim 6, wherein the EC motor includes an integral rotor position sensor.

12. (Currently Amended) The method of claim 11, further comprising calculating a position of the cam with a signal from the rotor position sensor in order to ~~[[vary]]~~ accelerate the rotating speed of the cam approximately midway through ~~[[during]]~~ the compression stroke.

13. (New) A method for controlling a metering cycle of a pump, the pump including a diaphragm coupled to a ram, the ram being moved by a cam, which is rotated by a shaft of an electric motor, in order to displace the diaphragm in a first direction, for a compression stroke of the metering cycle, and then in a second direction for an aspiration stroke of the metering cycle, the method comprising:

accelerating a rotating speed of the cam from a minimum speed to a maximum speed approximately midway through the compression stroke of the metering cycle; and maintaining the maximum rotating speed of the cam during an entirety of the aspiration stroke of the metering cycle.

14. (New) The method of claim 13, further comprising starting the compression stroke of the metering cycle at the maximum rotating speed of the cam.